

District I
1625 N French Dr, Hobbs, NM 88240
District II
1301 W Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-144 CLEZ
July 21, 2008

For closed-loop systems that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure, submit to the appropriate NMOC District Office.

Closed-Loop System Permit or Closure Plan Application

(that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure)

Type of action: ☒ Permit ☐ Closure

Instructions: Please submit one application (Form C-144 CLEZ) per individual closed-loop system request. For any application request other than for a closed-loop system that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure, please submit a Form C-144.

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

1.
Operator: **COG OPERATING LLC** OGRID #: **229137**
Address: **550 WEST TEXAS, SUITE 100 MIDLAND, TX 79701**
Facility or well name: **CONOCO 8 STATE #4**
API Number: **30-015- 39882** OCD Permit Number: **212475**
U/L or Qtr/Qtr **UL J** Section **8** Township **17S** Range **29E** County: **Eddy**
Center of Proposed Design: Latitude **N/A** Longitude **N/A** NAD: ☐ 1927 ☐ 1983
Surface Owner: ☐ Federal ☒ State ☐ Private ☐ Tribal Trust or Indian Allotment

2.
☒ **Closed-loop System:** Subsection H of 19.15.17.11 NMAC
Operation: ☒ Drilling a new well ☐ Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) ☐ P&A
☐ Above Ground Steel Tanks or ☒ Haul-off Bins

3.
Signs: Subsection C of 19.15.17.11 NMAC
☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers
☒ Signed in compliance with 19.15.3.103 NMAC

RECEIVED

FEB 03 2012

NMOC DISTRICT OFFICE

4.
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.
☒ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
☒ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
☒ Closure Plan (Please complete Box 5) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
☐ Previously Approved Design (attach copy of design) API Number: _____
☐ Previously Approved Operating and Maintenance Plan API Number: _____

5.
Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC)
Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two facilities are required.

Disposal Facility Name: **CRI** Disposal Facility Permit Number: **R1966**

Disposal Facility Name: **GM INC** Disposal Facility Permit Number: **711-019-001**

Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future service and operations?
☐ Yes (If yes, please provide the information below) ☒ No

Required for impacted areas which will not be used for future service and operations:

- ☐ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC
☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

Operator Application Certification:

I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.

Name (Print): **KACIE CONNALLY** Title: **PERMITTING TECH**

Signature: *K Connally* Date: **12/22/2011**

e-mail address: **kconnally@concho.com** Telephone: **432-221-0336**

7. **OCD Approval:** ☒ Permit Application (including closure plan) ☐ Closure Plan (only)

OCD Representative Signature: RDade Approval Date: 02/07/2012

Title: Dist R Supervisor OCD Permit Number: 212475

8. **Closure Report (required within 60 days of closure completion):** Subsection K of 19.15.17.13 NMAC

Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.

☐ Closure Completion Date: _____

9. **Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:**

Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.

Disposal Facility Name: _____ Disposal Facility Permit Number: _____

Disposal Facility Name: _____ Disposal Facility Permit Number: _____

Were the closed-loop system operations and associated activities performed on or in areas that *will not* be used for future service and operations?

☐ Yes (If yes, please demonstrate compliance to the items below) ☐ No

Required for impacted areas which will not be used for future service and operations:

☐ Site Reclamation (Photo Documentation)

☐ Soil Backfilling and Cover Installation

☐ Re-vegetation Application Rates and Seeding Technique

10. **Operator Closure Certification:**

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): _____ Title: _____

Signature: _____ Date: _____

e-mail address: _____ Telephone: _____



COG Operating LLC

Eddy County, NM (NAN27 NME)

Conoco 8 State #4

Conoco 8 State #4

OH

Plan: Plan #1 - 7-7/8" Hole

SHL = 1380' FSL & 1650' FEL

BHL = 1700' FSL & 1700' FEL

Top of Paddock = 1700' FSL & 1700' FEL @ 3900' TVD

Standard Planning Report

26 January, 2012





SDI
Planning Report



Database:	EDM.5000.1 Single User Db	Local Co-ordinate Reference:	Site Conoco 8 State #4
Company:	COG Operating LLC	TVD Reference:	GL @ 3616 00usft
Project:	Eddy County NM (NAN27 NME)	MD Reference:	GL @ 3616 00usft
Site:	Conoco 8 State #4	North Reference:	Grid
Well:	Conoco 8 State #4	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 - 7-7/8" Hole		

Project:	Eddy County NM (NAN27 NME)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site:	Conoco 8 State #4		
Site Position:	Map	Northings:	671,388 60 usft
From:		Easting:	573,736 50 usft
Position Uncertainty:	0 00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 50' 43 807 N
		Longitude:	104° 5' 35 666 W
		Grid Convergence:	0 13 °

Well:	Conoco 8 State #4		
Well Position	+N/-S	0 00 usft	Northings:
	+E/-W	0 00 usft	Easting:
Position Uncertainty	0 00 usft	Wellhead Elevation:	Ground Level:
			3,616 00 usft

Wellbore:	OH		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2010	2012/01/26	7 80
			Dip Angle
			(°)
			60 66
			Field Strength
			(nT)
			48,869

Design:	Plan #1 - 7-7/8" Hole		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0 00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0 00	0 00	0 00
			Direction
			(°)
			351 12

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0 00	0 00	0 00	0.00	0 00	0 00	0 00	0 00	0 00	0 00	
950 00	0 00	0 00	950 00	0 00	0 00	0 00	0 00	0 00	0 00	
1,305 90	7 12	351 12	1,304 99	21.81	-3 41	2 00	2 00	0 00	351 12	
3,563 33	7 12	351 12	3,545 01	298 19	-46 59	0 00	0 00	0 00	0 00	
3,919 23	0 00	0 01	3,900.00	320 00	-50 00	2 00	-2 00	0 00	180 00	T1-Conoco 8 State #4
5,419 23	0 00	0 01	5,400 00	320 00	-50 00	0 00	0 00	0 00	0 01	PBHL-Conoco 8 State



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Site Conoco 8 State #4
Company:	COG Operating LLC	TVD Reference:	GL @ 3616 00usft
Project:	Eddy County, NM (NAN27 NME)	MD Reference:	GL @ 3616 00usft
Site:	Conoco 8 State #4	North Reference:	Grid
Well:	Conoco 8 State #4	Survey Calculation Method:	Minimum Curvature
Wellbore Design:	OH Plan #1 - 7-7/8" Hole		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
850 00	0 00	0 00	850 00	0 00	0 00	0 00	0 00	0 00	0 00
8-5/8" Casing									
950 00	0 00	0 00	950 00	0 00	0 00	0 00	0 00	0 00	0 00
KOP Start Build 2.00°/100'									
1,000 00	1 00	351 12	1,000 00	0 43	-0 07	0 44	2 00	2 00	0 00
1,100 00	3 00	351 12	1,099 93	3 88	-0 61	3 93	2 00	2 00	0 00
1,200 00	5 00	351 12	1,199 68	10 77	-1 68	10 90	2 00	2 00	0 00
1,300 00	7 00	351 12	1,299 13	21 10	-3 30	21 35	2 00	2 00	0 00
1,305 90	7 12	351 12	1,304 99	21 81	-3 41	22.08	2 00	2 00	0 00
Hold 7.12°									
1,400 00	7 12	351 12	1,398 36	33 33	-5 21	33 74	0 00	0 00	0 00
1,500 00	7 12	351 12	1,497 59	45 58	-7 12	46 13	0 00	0 00	0 00
1,600 00	7 12	351 12	1,596 82	57 82	-9 03	58 52	0 00	0 00	0 00
1,700 00	7 12	351 12	1,696 05	70 06	-10 95	70 91	0 00	0 00	0 00
1,800 00	7 12	351 12	1,795 28	82 31	-12 86	83 30	0 00	0 00	0 00
1,900 00	7 12	351 12	1,894 51	94 55	-14 77	95 70	0 00	0 00	0 00
2,000 00	7 12	351 12	1,993 74	106 79	-16 69	108 09	0 00	0 00	0 00
2,100 00	7 12	351 12	2,092 97	119 03	-18 60	120 48	0 00	0 00	0 00
2,200 00	7 12	351 12	2,192 19	131 28	-20 51	132 87	0 00	0 00	0 00
2,300 00	7 12	351 12	2,291 42	143 52	-22 42	145 26	0 00	0 00	0 00
2,400 00	7 12	351 12	2,390 65	155 76	-24 34	157 65	0 00	0 00	0 00
2,500 00	7 12	351 12	2,489 88	168 01	-26 25	170 04	0 00	0 00	0 00
2,600 00	7 12	351 12	2,589 11	180 25	-28 16	182.43	0 00	0 00	0 00
2,700 00	7 12	351 12	2,688 34	192 49	-30 08	194.83	0 00	0 00	0 00
2,800 00	7 12	351 12	2,787 57	204 73	-31 99	207 22	0 00	0 00	0 00
2,900 00	7 12	351 12	2,886 80	216 98	-33 90	219 61	0 00	0 00	0 00
3,000 00	7 12	351 12	2,986 03	229 22	-35 82	232 00	0 00	0 00	0 00
3,100 00	7 12	351 12	3,085 26	241 46	-37 73	244 39	0 00	0 00	0 00
3,200 00	7 12	351 12	3,184 49	253 70	-39 64	256 78	0 00	0 00	0 00
3,300 00	7 12	351 12	3,283 72	265 95	-41 55	269 17	0 00	0 00	0 00
3,400 00	7 12	351 12	3,382 95	278 19	-43 47	281 57	0 00	0 00	0 00
3,500 00	7 12	351 12	3,482 18	290 43	-45 38	293 96	0 00	0 00	0 00
3,563 33	7 12	351 12	3,545 02	298 19	-46 59	301 80	0 00	0 00	0 00
Start Drop 2.00°/100'									
3,600 00	6 38	351 12	3,581 43	302 45	-47 26	306 12	2 00	-2 00	0 00
3,700 00	4 38	351 12	3,680 99	311 72	-48 71	315 50	2 00	-2 00	0 00
3,800 00	2 38	351 12	3,780 81	317 55	-49 62	321 40	2 00	-2 00	0 00
3,900 00	0 38	351 12	3,880 77	319 94	-49 99	323 82	2 00	-2 00	0 00
3,919 23	0 00	0 01	3,900 00	320 00	-50 00	323 88	2 00	-2 00	0 00
Hold 0.00° - Top of Paddock - T1-Conoco 8 State #4									
5,419 23	0 00	0 01	5,400 00	320 00	-50 00	323 88	0 00	0 00	0 00
PBHL-Conoco 8 State #4									



SDI
Planning Report



Database:	EDM 5000 1 Single User Db	Local Co-ordinate Reference:	Site Conoco 8 State #4
Company:	COG Operating LLC	TVD Reference:	GL @ 3616 00usft
Project:	Eddy County, NM (NAN27 NME)	MD Reference:	GL @ 3616 00usft
Site:	Conoco 8 State #4	North Reference:	Grd
Well:	Conoco 8 State #4	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 - 7-7/8" Hole		

Design Targets									
Target Name	Dip Angle	Dip Dir	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
Shape									
East HL-Conoco 8 State	0 00	0 00	-1 00	270 00	0 00	671,658 60	573,736 50	32° 50' 46 479 N	104° 5' 35 659 W
- plan misses target center by 270 00usft at 0 00usft MD (0 00 TVD, 0 00 N, 0 00 E)									
- Rectangle (sides W0 00 H150 00 D0 00)									
South HL-Conoco 8 Stat	0 00	0 00	-1 00	270 00	0 00	671,658 60	573,736 50	32° 50' 46 479 N	104° 5' 35 659 W
- plan misses target center by 270.00usft at 0 00usft MD (0 00 TVD, 0 00 N, 0 00 E)									
- Rectangle (sides W150 00 H0 00 D0 00)									
T1-Conoco 8 State #4	0 00	0 01	3,900 00	320 00	-50 00	671,708 60	573,686 50	32° 50' 46 975 N	104° 5' 36 244 W
- plan hits target center									
- Point									
PBHL-Conoco 8 State #	0 00	0 00	5,400 00	320 00	-50 00	671,708 60	573,686 50	32° 50' 46.975 N	104° 5' 36.244 W
- plan hits target center									
- Circle (radius 50 00)									

Casing Points				
Measured Depth	Vertical Depth	Name	Casing Diameter	Hole Diameter
(usft)	(usft)		(")	(")
850 00	850 00	8-5/8" Casing	8-5/8	12-1/4

Formations				
Measured Depth	Vertical Depth	Name	Dip	Dip Direction
(usft)	(usft)		(°)	(°)
3,919 23	3,900 00	Top of Paddock	0 00	

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S	+E/-W	
(usft)	(usft)	(usft)	(usft)	
950 00	950 00	0 00	0 00	KOP Start Build 2 00°/100'
1,305 90	1,304 99	21 81	-3 41	Hold 7 12°
3,563 33	3,545 02	298 19	-46 59	Start Drop 2 00°/100'
3,919 23	3,900 00	320 00	-50 00	Hold 0 00°

